

LIST OF PUBLICATIONS

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Caution: Standard electronic science-metric data bases like *Scopus* and *Web of Science* are still *very much incomplete* – especially failing to track older publications and citations, proceedings of international conferences, monographs, as well as non-English language science journals and proceedings. Thus, *Scopus* and *Web of Science* may in many cases yield misleading output results on publications and citations. *Google Scholar* provides more (although still not) complete data, as do the specialized electronic data bases for publications in the area of physical sciences such as *INSPIRE* (inspirehep.net) and *ArXiv.org*.

- **Total Number of Scientific Papers: 147**

- Articles published in international journals: **85**
Physics Letters B - 27; Physics Letters A - 3; Nuclear Physics B - 5; Physical Review D - 2; Communications in Mathematical Physics - 2; Modern Physics Letters A - 5; International Journal of Modern Physics A - 7; International Journal of Modern Physics D - 2; General Relativity and Gravitation -2; Symmetry - 2; Journal of Mathematical Physics - 2; Letters in Mathematical Physics - 9; Fortschritte der Physik - 2; EuroPhysics Journal B - 1; EuroPhysics Journal C - 3; Applicable Analysis - 1; European Physics Journal Plus - 1; Central European Journal of Physics - 1; Astronom. Nachrichten - 1; Invertis Journal of Science and Technology - 1; The Open Nuclear and Particle Physics Journal - 1; Theoretical and Mathematical Physics - 4
- Articles published in proceedings of international conferences: **41**
- Articles published in national journals: **15**
Bulgarian Journal of Physics - 13; Comptes Rendus d'Academie Bulgare des Sciences - 2
- Preprints: **6**

- **Total Number of Independent Citations: 1556**

- **Total Impact Factor (JCR data): 286.193**

- **H-index: 21**

1. FEYNMAN RULES AND RENORMALIZATION OF THE HAAG SERIES AND RETARDED FUNCTIONS. *Bulg. J. Phys.* **2** (1975) 323-335.

By E.R. Nissimov, S.J. Pacheva (Sofia, Inst. Nucl. Res. and Sofia, Inst. Solid State Phys.), 1975.

2. NONLOCAL QUASIPOTENTIAL EQUATION IN TERMS OF RETARDED FUNCTIONS. *Bulg. J. Phys.* **4** (1977) 101-112.

By E.R. Nissimov (Leningrad State Univ.), S.J. Pacheva (Sofia, Inst. Nucl. Res.), 1977.

3. INFINITE SET OF CONSERVATION LAWS OF THE QUANTUM CHIRAL FIELD IN TWO-DIMENSIONAL SPACE-TIME. *Steklov Math. Inst. report LOMI E-1-1978*. 29pp.

By I.Ya. Arefeva, P.P. Kulish, E.R. Nissimov, S.J. Pacheva (Steklov Math. Inst., Leningrad), 1977.

4. CHIRAL FIELD MODEL AND UNIVERSALITY IN THREE-DIMENSIONAL SPACE. I. *Theor. Math. Phys.* **41** (1979) 882-891. (*Teor. Mat. Fiz.* **41** (1979) 55-68).

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7. PHASE TRANSITION AND PARTICLE SPECTRUM IN THREE-DIMENSIONAL GENERALIZED NONLINEAR SIGMA MODELS AND HIGGS MODELS FROM $1/N$ EXPANSION. *Comptes Rend. Acad. Bulg. Sci.* **32** (1979) 1475-1478 .

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By E.R. Nissimov (Sofia, Inst. Nucl. Res.), S.J. Pacheva (Steklov Math. Inst., Leningrad), 1979.

10. BPHZL RENORMALIZATION OF $1/N$ EXPANSION AND CRITICAL BEHAVIOR OF THE THREE-DIMENSIONAL CHIRAL FIELD. *Commun. Math. Phys.* **71** (1980) 213.

By I.Ya. Arefeva, E.R. Nissimov, S.J. Pacheva (Steklov Math. Inst., Leningrad), 1980.

11. PHASE TRANSITION AND $1/N$ EXPANSION IN $(2+1)$ -DIMENSIONAL SUPERSYMMETRIC SIGMA MODELS. *Lett. Math. Phys.* **5** (1981) 67-74.

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13. NONPERTURBATIVE RENORMALIZATION GROUP FUNCTIONS IN $(2+1)$ -DIMENSIONAL SUPERSYMMETRIC GAUGE THEORIES. *Lett. Math. Phys.* **6** (1982) 101-108 ; *Lett. Math. Phys.* **8** (1984) 347 (erratum).

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14. DYNAMICAL GENERATION OF TOPOLOGICALLY MASSIVE THREE-DIMENSIONAL GAUGE FIELDS AND COMPOSITE FERMIONS. *Lett. Math. Phys.* **6** (1982) 361-371.
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20. AXIAL ANOMALIES IN ODD DIMENSIONS. In *"Differential Geometric Methods In Theoretical Physics"*, H. Doebner and T. Palev, eds., 198-209, World Sci., 1986.
By E.R. Nissimov, S.J. Pacheva (Sofia, Inst. Nucl. Res.), 1984.
21. ANOMALIES IN SPACES OF EVEN AND ODD DIMENSIONS IN THE SCHEME OF STOCHASTIC QUANTIZATION. *Theor. Math. Phys.* **73** (1987) 1274-1286. (*Teor. Mat. Fiz.* **73** (1987) 362-378).
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22. PARITY VIOLATING ANOMALIES IN SUPERSYMMETRIC GAUGE THEORIES. *Phys. Lett.* **155B** (1985) 76-82.
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27. TOPOLOGICAL QUANTIZATION OF PHYSICAL PARAMETERS, GLOBAL ANOMALIES AND THE STOCHASTIC SCHEME. *Phys. Lett.* **171B** (1986) 267.
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31. $N = 1$ SUPERFIELDS AND $N = 2$ HARMONIC SUPERFIELDS IN FOUR-DIMENSIONS AS SECOND QUANTIZED SUPERPARTICLES. *Mod. Phys. Lett.* **A2** (1987) 651.
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33. COVARIANT CANONICAL QUANTIZATION OF THE GREEN-SCHWARZ SUPERSTRING. *Nucl. Phys.* **B297** (1988) 349.
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34. COVARIANT UNCONSTRAINED SUPERFIELD ACTION FOR THE LINEARIZED $D = 10$ SUPER YANG-MILLS THEORY. *Nucl. Phys.* **B299** (1988) 183.
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61. DARBOUX-BÄCKLUND SOLUTIONS OF $SL(p, q)$ KP-KdV HIERARCHIES, CONSTRAINED GENERALIZED TODA LATTICES, AND TWO-MATRIX STRING MODEL. *Phys. Lett.* **201A** (1995) 293 (*hep-th/9501018*).
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62. VOLUME-PRESERVING DIFFEOMORPHISMS' VERSUS LOCAL GAUGE SYMMETRY. *Phys. Lett.* **360B** (1995) 57 (*hep-th/9505128*).
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74. LOOP-ALGEBRA AND VIRASORO SYMMETRIES IN INTEGRABLE HIERARCHIES OF KP TYPE. *Applicable Analysis*, **78** (2001) 233–253 (nlin.SI/0004040).

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